

**Amendments to the Claims:**

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (Currently amended): An apparatus for transporting a semiconductor wafer from one position to another position ~~comprising~~ comprising:

an end effector having a base portion and at least one finger extending from the base portion, the finger having a top surface and a bottom surface and the finger including a free end, and wherein the top surface includes a substantially flat portion extending from the base portion, and wherein the finger includes a tapered portion extending from the substantially flat portion towards the free end;

wherein the tapered portion includes an angled surface formed at an angle ranging from about 2-8 degrees with respect to the substantially flat portion;

and wherein the thickness of the finger between the substantially flat portion of the bottom surface ranges from about 1.8-1.95 mm.

Claim 2 (canceled).

Claim 3 (canceled).

Claim 4 (original): An apparatus as set forth in claim 1 wherein only a single finger extends from the base portion.

Claim 5 (original): An apparatus as set forth in claim 1 having at least two spaced apart fingers extending from the base portion.

Claim 6 (original): An apparatus as set forth in claim 1 wherein the tapered portion includes an angled surface formed at an angle ranging from about 4-5 degrees with respect to the substantially flat portion.

Claim 7 (original): An apparatus as set forth in claim 1 wherein the length of the tapered portion ranges from about 3-8 mm.

Claim 8 (currently amended): An apparatus as set forth in claim 1 wherein the finger further [[in]] includes a vacuum port hole formed therein for drawing a vacuum therethrough and gripping a flat object.

Claim 9 (original): An apparatus as set forth in claim 1 wherein the end effector is made from a material comprising a ceramic.

Claim 10 (original): An apparatus as set forth in claim 9 wherein the ceramic comprises at least one of alumina and silicon carbide.

Claim 11 (original): An apparatus as set forth in claim 1 wherein the end effector is made from material comprising a metal.

Claim 12 (original): An apparatus as set forth in claim 11 wherein the metal comprises aluminum.

Claim 13 (original): An apparatus as set forth in claim 1 further comprising a robot having a robot arm, and wherein the end effector is attached to an end of the robot arm, and wherein the robot is constructed and arranged to move the end effector in a plurality of directions.

Claim 14 (previously presented): An apparatus comprising:

- a robot having a robot arm for movement in a plurality of directions, and an end effector secured to an end of the robot arm;

- a wafer cassette housing having first and second side walls and a plurality of spaced apart ledges extending inwardly from each of the side walls constructed and arranged so that corresponding ledges on each side wall are positioned to support a semiconductor wafer, and the housing having a front face with an opening formed therein for loading and unloading the cassette housing with semiconductor wafers;

- at least two spaced apart adjacently positioned semiconductor wafers supported by corresponding ledges extending inwardly from the first and second side walls of the wafer cassette housing to define an opening between adjacently positioned semiconductor wafers;

- an end effector having at least one extension wherein each extension includes a top surface and a bottom surface and the extension having a free end, and the top surface having a substantially flat portion, and a tapered portion extending from the substantially flat portion

towards the free end, and wherein the thickness of the extension between the substantially flat portion and the bottom surface is about 0.05-0.2 mm less than the opening between the adjacently positioned semiconductor wafers in the cassette housing.

Claim 15 (original): An apparatus as set forth in claim 14 wherein the tapered portion includes an angled surface formed at an angle ranging from about 2-8 degrees with respect to the substantially flat portion.

Claim 16 (original): An apparatus as set forth in claim 14 wherein the tapered portion includes an angled surface formed at an angle ranging from about 4-5 degrees with respect to the substantially flat portion.

Claim 17 (original): An apparatus as set forth in claim 14 further comprising a second extension and wherein the extensions are spaced apart from each other.

Claim 18 (original): An apparatus as set forth in claim 14 wherein the length of the tapered portion ranges from about 3-8 mm.

Claim 19 (canceled).

Claim 20 (canceled).